1. Project Name: Asan River FCP

2. Date of Inspection: December 21, 2002

3. Inspection Personnel:

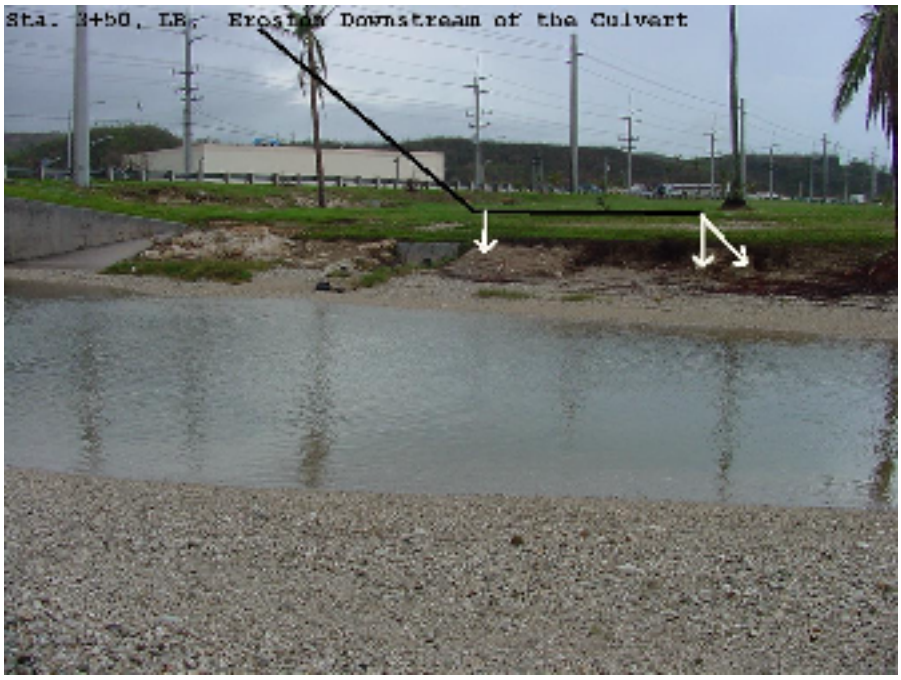
Name	Agency/Office	Telephone No.
a. Dan Meyers	CEPOH-EC-T	808-438-8875

4. Discussion:

The purpose for this inspection was to assess any damages caused by Typhoon Pongsona. The project provides for approximately 400 LF of unlined channel, 592 LF of grass-lined channel, 1,052 LF of riprap channel and modifications of the Marine Dr. culverts.

EMERGENCY REPAIRS REQUIRED

Asan River



a. Sta. 4+00, Left Bank (LB), Additional erosion.

b. Sta. 6+00, Right Bank (RB), no visible damage to riprap slope protection or headwall.

c. Sta. 7+40, Left Bank, (LB) & RB, no new damage to grouted riprap recently repaired. Note High Water Mark.

d. Sta. 9+00, Note debris in channel, unable to inspect all armor stones due to vegetation.

e. Sta. 14+00, Centerline, (CL), a few additional "stones" in the river, unable to determine if they are riprap stones from up-river due to vegetation.

f. Sta. 14+00, RB, additional toe erosion.

g. Sta. 14+00, LB, Toe erosion.

h. Sta. 14+25, LB, Close up of eroded toe area, also fresh water no weep holes in structure.

i. Sta. 15+00, RB, unable to verify conditions due to vegetation.

Calacag River

a. Sta. 2+00, RB & LB, no additional erosions, some silt build-up.

b. Sta. 5+00, Unable to inspect due to excessive vegetation.

c. Sta. 5+75, # 2 Drop structure, no damages noted.

d. Sta. 7+00, Reference photo of upper bridge.

e. Sta. 7+75, CL, drop structure # 1, no damage noted.

5. Findings/Conclusions:

Typhoon Pongsona has substantially increase the toe scouring under the upper bridge on the Asan River. This deterioration has occurred on both the left and right banks at Sta. 14+00.

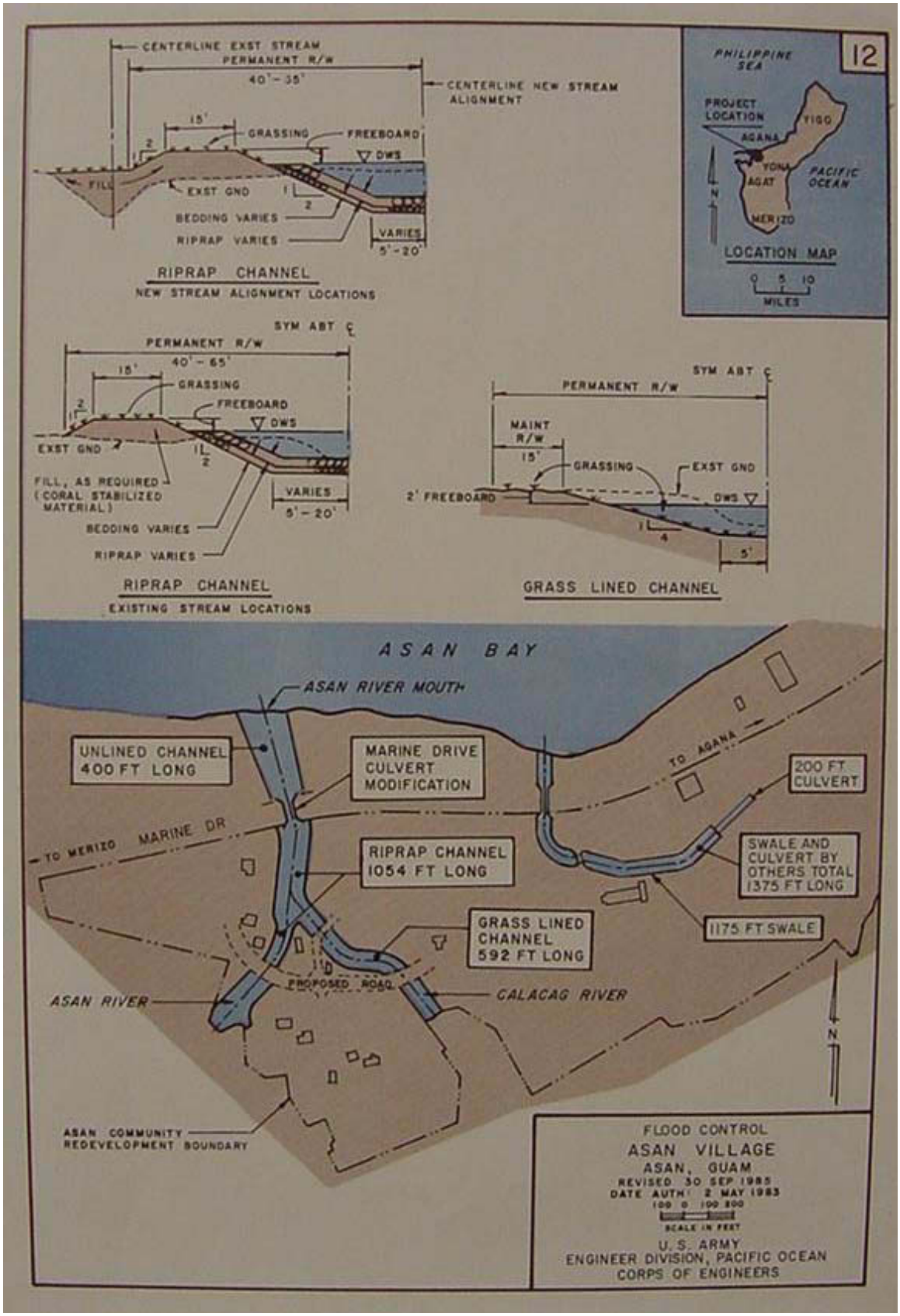
Some woody plants have been removed from the crest of the riprap (closer to Marine Dr.) however, heavy vegetation did prevent a more detailed inspection.

Based on this inspection there were damages, which require repair.

Signed: _____
Dan Meyers, CEPOH-EC-T

Signed: _____
James Pennaz, P.E.,CH, CEPOH-EC-T

Enclosure(s)
1. Site Plan


CENTERLINE EXST STREAM
PERMANENT R/W
40' - 35'
CENTERLINE NEW STREAM ALIGNMENT
15'
GRASSING
FREEBOARD
DWS
FILL
EXST GND
BEDDING VARIES
RIPRAP VARIES
VARIES
5' - 20'
RIPRAP CHANNEL
NEW STREAM ALIGNMENT LOCATIONS
PHILIPPINE SEA
12
PROJECT LOCATION
YIGO
AGANA
YONA
AGAT
PACIFIC OCEAN
MERIZO
N
LOCATION MAP
0 5 10
MILES
SYM ABT ℄
PERMANENT R/W
40' - 65'
15'
GRASSING
FREEBOARD
DWS
EXST GND
FILL, AS REQUIRED (CORAL STABILIZED MATERIAL)
BEDDING VARIES
RIPRAP VARIES
VARIES
5' - 20'
RIPRAP CHANNEL
EXISTING STREAM LOCATIONS
SYM ABT ℄
PERMANENT R/W
MAINT R/W
15'
GRASSING
EXST GND
2' FREEBOARD
DWS
5'
GRASS LINED CHANNEL
ASAN BAY
ASAN RIVER MOUTH
UNLINED CHANNEL 400 FT LONG
MARINE DRIVE CULVERT MODIFICATION
TO AGANA
200 FT CULVERT
TO MERIZO
MARINE DR
RIPRAP CHANNEL 1054 FT LONG
SWALE AND CULVERT BY OTHERS TOTAL 1375 FT LONG
GRASS LINED CHANNEL 592 FT LONG
1175 FT SWALE
PROPOSED ROAD
ASAN RIVER
CALACAG RIVER
N
ASAN COMMUNITY REDEVELOPMENT BOUNDARY
FLOOD CONTROL
ASAN VILLAGE
ASAN, GUAM
REVISED 30 SEP 1985
DATE AUTH: 2 MAY 1983
100 0 100 200
SCALE IN FEET
U.S. ARMY
ENGINEER DIVISION, PACIFIC OCEAN
CORPS OF ENGINEERS

ASAN VILLAGE, GUAM

CONDITION OF IMPROVEMENT 30 SEPTEMBER 1989

PREVIOUS PROJECTS: None.

EXISTING PROJECT: Authorized on 2 May 1983 under Section 205 of the Flood Control Act of 1948, as amended. Provides for 400 feet of unlined channel, 592 feet of grass-lined channel, 1,054 feet of riprap channel, and modification of Marine Drive culvert. The interior drainage work by the Guam Housing and Urban Renewal Authority consists of a 200 foot culvert and a 1,375 foot swale with an ocean outlet.

PROGRESS OF WORK

Completed and Under Maintenance: The project was completed in April 1985.

Work Remaining: None.

COST OF CONSTRUCTION:

	New Work
Completed Works:	
United States Funds	$1,028,000
Contributed Funds (Required)	625,634
Total Costs	$1,653,634